

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: [DATE]			ATTY DOCKET NO. 03500.015727.		APPLICATION NO. 09/941,780	
U.S. PATENT DOCUMENTS			APPLICANT Takeo Tsukamoto			
			FILING DATE August 30, 2001		GROUP 2821 2828	

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98
	5,847,495	12/98	Yamanobe et al.	313	310	
	5,066,883	11/91	Yoshioka et al.	313	309	
	6,455,021 B1	09/02	Saito	423	447.3	07/20/99
	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00
	6,283,812 B1	09/01	Jin et al.	445	24	01/25/99
	4,816,289	03/89	Komatsu et al	423	447.3	
	5,443,859	08/95	Nagata	427	122	
	5,618,875	04/97	Baker et al.	524	495	
	5,690,997	11/97	Grow	427	249	
	6,129,602	10/00	Yamanobe	445	24	
	6,228,904 B1	05/01	Yadav et al.	523	210	
	6,333,016 B1	12/01	Resasco et al.	423	447.3	9/3/99
	6,413,487 B1	07/02	Resasco et al.	423	447.3	6/2/00
	6,445,006 B1	09/02	Brandes et al.	257	76	7/27/99
	5,981,305	11/99	Hattori	438	20	
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	5,458,784	10/95	Baker et al.	210	674	5/3/00
	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	
	5,965,267	10/99	Nolan et al.	428	408	

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Sheet 1 of 5

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	5,872,541	02/99	Yoshioka et al.	345	74	
	5,543,684	08/96	Kumar et al.	313	495	
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	4,900,483	2/90	Witzke et al.	264	29.2	
	5,500,200	3/96	Mandeville et al.	423	447.3	
	5,726,524	3/98	Debe	313	309	
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	2002/0047562 A1	04/25/02	Kitamura et al.	315	169.3	05/29/01
	5,770,918	6/98	Kawate et al.	313	495	
	5,185,554	2/93	Nomura et al.	313	495	
	2002/0146958 A1	10/02	Ono et al.	445	24	
	2003/0048056 A1	3/03	Kitamura et al.	313	311	
EXAMINER David Vn			DATE CONSIDERED 11/4/04			

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APPLICATION NO.

09/941,780

APPLICANT

Takeo Tsukamoto

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August 30, 2001

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	11-194134	07/99	Japan	G01N	37/00	Abst., European Equivalent 0 913 508 A3
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	1 122 344 A2	08/01	EPO	D01F	9/127	English
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	1 022 763 A1	7/00	EPO	H01J	9/02	English
	2000-223005	8/00	Japan	H01J	1/304	Abst. & Counterpart U.S. Patent 6,283,812
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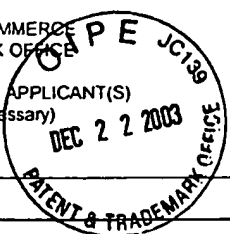
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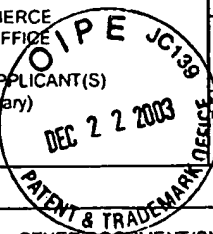
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<div style="text-align: center;">  </div>			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
		W. Zhu Et Al., <i>Electron Field Emission From Nanostructured Diamond and Carbon Nanotubes</i> , Solid State Electronics, Vol. 45, 2001, pp. 921-928	
		J.M. Bonard Et Al., <i>Field Emission From Carbon Nanotubes: The First Five Years</i> , Solid Stat Electronics, Vol. 45, 2001, pp. 893-914	
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		Q. H. Wang et al., "A Nanotube-Based Field-Emission Flat Panel Display," Applied Physics Letters, Vol. 72, No. 22, June 1998, pp. 2912-2913	
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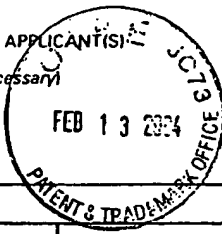
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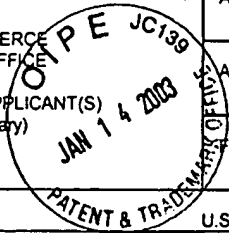
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U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R	5,773,921	06/30/98	Keesman et al.	313	309	
↑	5,973,444	10/26/99	Xu et al.	313	309	
	5,935,639	8/10/99	Sullivan et al.	427	78	
	4,956,578	9/11/90	Shimizu et al.	315	3	
	5,185,554	2/9/93	Nomura et al.	313	495	
↓	6,448,709	9/02	Chuang et al.	313	497	
R	6,204,597	03/01	Xie et al.	313	310	

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WO 90/07023	06/28/90	PCT			English	
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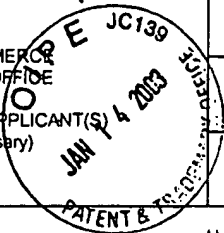
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)	
2	R.T.K. Baker et al., "Formation of Carbonaceous Deposits from the Platinum-Iron Catalyzed Decomposition of Acetylene," 37 J. Catal. 101-105 (1975).
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2	S. Iijima, "Helical Microtubules of Graphitic Carbon," Nature, Vol. 345, 56-58 (1991).
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2	W. A. DeHeer et al., "Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties," Science Vol. 268, 845-847 (1995).

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2	5,577,943	11/96	Vickers et al.	445	24	
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↑	5,192,240	03/09/93	Komatsu	445	24	
↑	5,214,346	05/25/93	Komatsu	313	309	
↑	5,382,867	01/17/95	Maruo et al.	313	309	
↓	5,612,587	03/18/97	Itoh et al.	313	309	
2	6,313,572	11/06/01	Yamada	313	310	
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2	0 758 028 A2	02/12/97	EPO	D01F	9/127	English
↑	WO 98/05920	02/12/98	PCT	G01B	7/34	English
↓	0 394 698 A2	10/31/90	EPO	H01J	1/30	English
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2		2-112125	04/24/90	JAPAN	H01J	1/30	Abst. & corresponding U.S. Patent 4,956,578
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↓		W.P. Dyke et al., "Field Emission", <i>Advances In Electronics and Electron Physics</i> , Vol. 8, (1956) pp. 89-185					
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2	M. Hartwell et al., "Strong Electron Emission from Patterned Tin-Indium Oxide Thin Films", IEEE Trans. Ed. Conf., (1983) pp.519-521					
↑	Hisashi Araki et al., "Electroforming and Electron Emission of Carbon Thin Films, Journal of th Vacuum Society of Japan, 1983 (with English Abstract on p. 22)					
	U.S. PATENT APPLICATION PUBLICATION NO. US 2002/0009637A1, 1/24/02 (Murakami et al.)					
	U.S. PATENT APPLICATION PUBLICATION NO. US 2001/0006232A1, 7/5/01 (Choi et al.)					
2	Rodriguez et al., "Catalytic Engineering of Carbon Nanostructures," Langmuir 11, 3862-3866 (1995).					
EXAMINER David vu			DATE CONSIDERED 11/4/04			

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Sheet 5 of 5

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		ATTY DOCKET NO. 03500.015727.	APPLICATION NO. 09/941,780
		APPLICANT <div style="text-align: center; font-weight: bold; font-size: 1.2em;">TAKEO TSUKAMOTO</div>	
		FILING DATE <div style="text-align: center; font-weight: bold;">AUGUST 30, 2001</div>	GROUP <div style="text-align: center;"> 2821 2828 </div>

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 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS							
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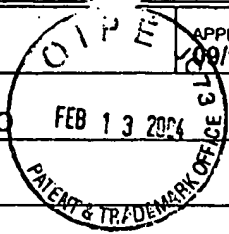
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Sheet 1 of 1

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		ATTY DOCKET NO. 03500.015727. APPLICANT TAKEO TSUKAMOTO FILING DATE August 30, 2001		APPLICATION NO. 09/941,780 GROUP 2621 2828	
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2	6,087,765	07/11/00	Coll et al.	313	309		
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2	2002/0009637	01/24/02	Murakami et al.	429	213		

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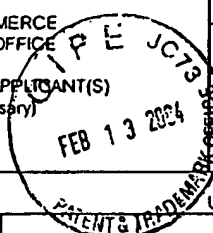
EXAMINER David vn	DATE CONSIDERED 11/4/04
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FILING DATE August 30, 2001			GROUP 2821 2828			
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2	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98
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	5,066,883	11/91	Yoshioka et al.	313	309	
	6,455,021 B1	09/02	Saito	423	447.3	07/20/99
	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00
	6,283,812 B1	09/01	Jin et al.	445	24	01/25/99
	4,816,289	03/89	Komatsu et al	423	447.3	
	5,443,859	08/95	Nagata	427	122	
	5,618,875	04/97	Baker et al.	524	495	
	5,690,997	11/97	Grow	427	249	
	6,129,602	10/00	Yamanobe	445	24	
	6,228,904 B1	05/01	Yadav et al.	523	210	
	6,333,016 B1	12/01	Resasco et al.	423	447.3	9/3/99
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	5,981,305	11/99	Hattori	438	20	
	6,290,564 B1	9/01	Talin et al.	445	50	9/30/99
	5,458,784	10/95	Baker et al.	210	674	5/3/00
↓	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	
2	5,965,267	10/99	Nolan et al.	428	408	
EXAMINER David JN			DATE CONSIDERED 11/4/01			

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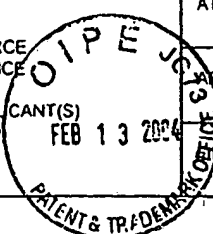
Sheet 1 of 5

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			ATTY DOCKET NO. 03500.015727.		APPLICATION NO. 09/941,780	
			APPLICANT Takeo Tsukamoto			
			FILING DATE August 30, 2001		GROUP 2821 2828	
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	5,551,903	9/96	Kumar et al.	445	24	
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	5,500,200	3/96	Mandeville et al.	423	447.3	
	5,726,524	3/98	Debe	313	309	
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	2002/0047562 A1	04/25/02	Kitamura et al.	315	169.3	05/29/01
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	5,185,554	2/93	Nomura et al.	313	495	
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EXAMINER			DATE CONSIDERED			
David Jn			11/4/04			

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Sheet 2 of 5

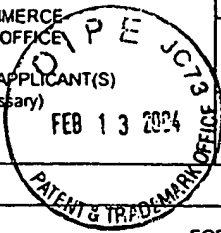
FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015727.		APPLICATION NO. 09/941,780	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE August 30, 2001		GROUP -2821 2828	



FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
2	11-194134	07/99	Japan	G01N	37/00	Abst., European Equivalent 0 913 508 A3
↑	11-139815	05/99	Japan	G01B	31/02	Abst.
	0 535 953 B1	01/96	EPO	H01J	1/30	English
	1 122 344 A2	08/01	EPO	D01F	9/127	English
	0 758 028 B1	09/11/02	EPO	D01F	9/127	English
	11-232997	08/27/99	Japan	H01J	1/30	European Counterpart 0 936 650
	1 022 763 A1	7/00	EPO	H01J	9/02	English
	2000-223005	8/00	Japan	H01J	1/304	Abst. & Counterpart U.S. Patent 6,283,812
	0 836 217 A1	04/98	EPO	H01J	29/94	English
	WO 99/58748	11/99	PCT	D01F	9/127	English
	CN 1181607A	5/98	China			English Counterparts 0 836 217 & 99/58748
	1 102 299 A1	5/01	EPO	H01J	1/30	English
	0 913 508 A3	5/99	EPO	D01F	9/127	English
	1 096 533 A1	5/01	EPO	H01J	9/02	English
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EXAMINER David Jn	DATE CONSIDERED 11/4/01
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FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015727.		APPLICATION NO. 09/941,780		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> APPLICANT Takeo Tsukamoto </div> </div>				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)						
		FILING DATE August 30, 2001		GROUP 2821 2828		
FOREIGN PATENT DOCUMENTS						
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	2000-86216	3/00	JAPAN	C01B	31/02	Abst.
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	2001-288625 A	10/01	Japan	D01F	9/127	Abst., Counterpart U.S. Patent 2002/00009637 & EP 1 122 344
	0 433 507 A1	6/91	EPO	D01F	9/127	English
	03-260119	11/91	Japan	D01F	9/127	Abst. & Counterpart U.S. Patent 4,900,483
	2001-52598	2/01	Japan	H01J	1/316	Abst.
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2	2001-162600	6/19/01	Japan	B82B	1/00	Abst.
EXAMINER David vn			DATE CONSIDERED 11/4/04			

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LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		APPLICANT Takeo Tsukamoto	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)		FILING DATE August 30, 2001	GROUP 2821 2828

No.	Author	Title
2	W. Zhu Et Al.,	<i>Electron Field Emission From Nanostructured Diamond and Carbon Nanotubes, Solid State Electronics, Vol. 45, 2001, pp. 921-928</i>
3	J.M. Bonard Et Al.,	<i>Field Emission From Carbon Nanotubes: The First Five Years, Solid State Electronics, Vol. 45, 2001, pp. 893-914</i>
4	A.M. Rao et al.,	"In Situ-grown Carbon Nanotube Array of with Excellent Field Emission Characteristics," <i>Applied Physics Letter, Vol. 76, No. 25, pp. 3813-3815 (2000).</i>
5	Cheol Jin Lee et al.,	"Carbon Nanofibers Grown on Sodalime Glass at 500 °C Using Thermal Chemical Vapor Deposition," <i>Chemical Physics Letters 340, pp. 413-418 (2001).</i>
6	Sashiro Uemura et al.,	"Carbon Nanotube FED with Graphite-Nano-Fiber Emitters," <i>ISSN 1083-1312, pp. 398-401.</i>
7	Q. H. Wang et al.,	"A Nanotube-Based Field-Emission Flat Panel Display," <i>Applied Physics Letters, Vol. 72, No. 22, June 1998, pp. 2912-2913</i>

EXAMINER Dand m	DATE CONSIDERED 11/4/04
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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: [DATE]		ATTY DOCKET NO. 03500.015727.	APPLICATION NO. 09/941,780
		APPLICANT TAKEO TSUKAMOTO	
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<i>21</i>	2003/0222560 A1	12/03	Roach	313	311		
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FOREIGN PATENT DOCUMENTS							
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EXAMINER <i>David vn</i>	DATE CONSIDERED <i>11/4/04</i>
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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>		ATTY DOCKET NO. 03500.015727.	APPLICATION NO. 09/941,780
		APPLICANT <div style="text-align: center; font-weight: bold; font-size: 1.2em;">TAKEO TSUKAMOTO</div>	
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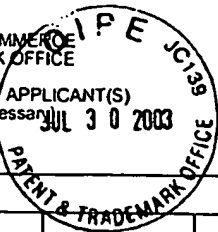
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Sheet 1 of 1

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)ATTY DOCKET NO.
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U.S. PATENT DOCUMENTS

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Sheet 1 of 1